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IS 6920 : 1993
ISO 1532 : 1973

भारतीय मानक

मछली पकड़ने के जाल — आकार देने के लिए गांठदार
जाल को काटना (टेपेरिंग)

(पहला पुनरीक्षण)

Indian Standard

FISHING NETS — CUTTING KNOTTED NETTING
TO SHAPE ('TAPERING')

(First Revision)

UDC 677'076'732/'736 : 639'2'081'11 : 677'027'613'2

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BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

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Price Group 3

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 1532 : 1973 'Fishing nets — Cutting knotted netting to shape ('tapering')' issued by the International Organization for Standardization (ISO), was adopted by the Bureau of Indian Standards on the recommendation of the Textile Materials for Marine/Fishing Purposes Sectional Committee (TX 18) and approval of the Textile Division Council.

In this standard certain terminology and conventions are not identical with those used in Indian Standards; attention is particularly drawn to the following:

Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'Indian Standard'.

In this Indian Standard, the following international standards are referred to. Read in their respective place the following:

International Standard

ISO 1107 Fishing nets — Netting — Basic terms and definitions

Indian Standard

IS 4402 : 1993 Fishing nets — Netting — Basic terms and definitions (Identical)

Indian Standard

FISHING NETS — CUTTING KNOTTED NETTING TO SHAPE ('TAPERING')

(First Revision)

1 SCOPE AND FIELD OF APPLICATION

This International Standard defines the different kinds of cutting knotted netting to shape by straight cut, the types of cutting (N-, T- and Bar-cut) and gives rules for the designation of the cutting rate.

2 REFERENCE

ISO 1107, *Fishing nets — Netting — Basic terms and definitions*.¹⁾

3 TERMINOLOGY

The expression *cutting knotted netting to shape* is here understood to mean the cutting from knotted netting of pieces in the shape of trapezia, triangles, parallelograms or other polygons.

4 TYPES OF CUTTING

Depending on the desired final shape of the netting, tapering cuts must be made in suitable ways. The various cutting rates are obtained by combining different lengths of cuts, either along a row of sequential knots (N- or T-cuts respectively) or parallel to a line of sequential mesh bars (B-cuts). See ISO 1107.

The cuts along a row of sequential knots are distinguished by their situation in the drawing of the net or in the netting that has been hung up for tapering as described in 4.1.1 and 4.1.2.

4.1 K-cuts (knot cuts) : Cuts just beyond the knots.

Symbol K

NOTE — The term "K-cut" may be used instead of the two following terms in cases where the relation to the general course of the netting yarn is insignificant.

4.1.1 N-cut (vertical cut) : A cut at right angles to the general course of the netting yarn just beyond the knots.

Symbol N

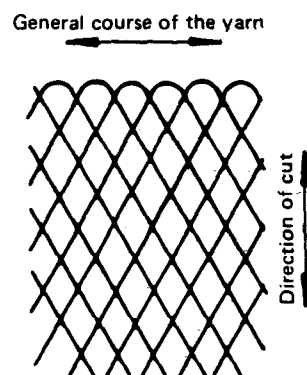


FIGURE 1

4.1.2 T-cut (horizontal cut) : A cut parallel to the general course of the netting yarn just beyond the knots.

Symbol T

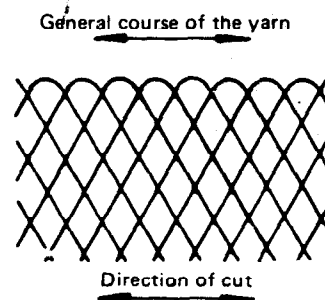


FIGURE 2

¹⁾ At present at the stage of draft. (Revision of ISO/R 1107.)

4.2 Bar-cut : A cut parallel to a line of sequential mesh bars, each from adjacent meshes, and severing one or more bars.

Symbol B

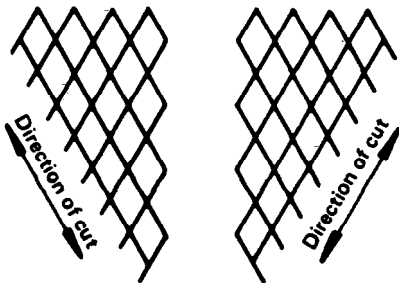


FIGURE 3

AT = all cuts entirely in T-direction
(parallel to the general course of the netting yarn)

5.3 Examples of the designation of the cutting rate

5.3.1 Example : 1N2B means the rhythmical alternation of one N-cut and two B-cuts.

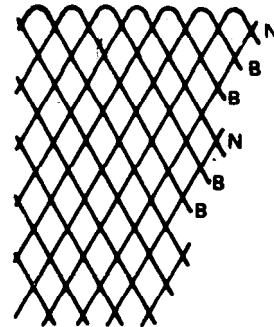


FIGURE 4

5 CUTTING RATE

5.1 Definition of the cutting rate

To obtain a desired shape and area of netting by tapering, N- or T-cuts and B-cuts of a distinct length must follow each other in a rhythmical way. This rhythmical alternation of the various types of cuts is called "cutting rate".

5.2 Designation of the cutting rate

The cutting rate is determined by the lengths of consecutive sections of N- or T-cuts and B-cuts.

The lengths of the various cuts are indicated

- for the N- and T-cuts by the number of consecutive meshes cut ;
- for the B-cut by the number of consecutive bars severed along the cutting edge, not counting the bars on the preceding knot.

To describe the cutting rate for tapering netting, the number and the type of each cut are indicated, giving first N- or T-cuts, then B-cuts.

The following combinations are used for cutting netting to shape :

N- and B-cuts

T- and B-cuts

N- and T-cuts

Exceptions are cutting rates where any of the named types of cutting is used alone. For these the following symbols are valid :

AB = all bars cut

AN = all cuts entirely in N-direction
(at right angles to the general course of the netting yarn)

5.3.2 Example : 1T2B means the rhythmical alternation of one T-cut and two B-cuts.

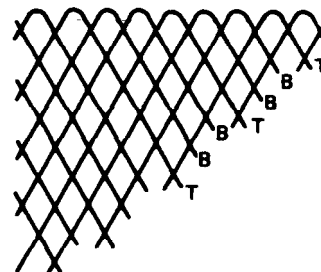


FIGURE 5

5.3.3 Example : 1N2T means the rhythmical alternation of one N-cut and two T-cuts.

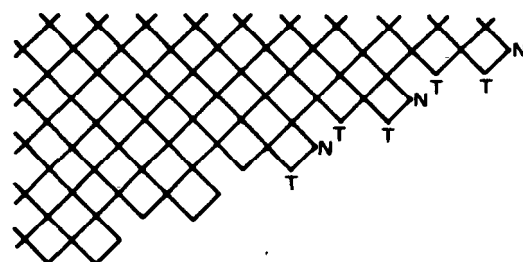


FIGURE 6

NOTE — Examples of tapering are given in the Annex.

6 VARIOUS KINDS OF CUTTING (TAPERING)

6.1 By tapering only one edge of the netting, right-angled trapezia or right-angled triangles are made.



FIGURE 7



FIGURE 8

6.2 By using the same cutting rate in the same direction on two opposite edges of the netting, parallelograms are made.

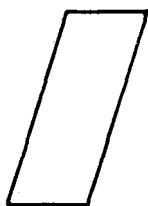


FIGURE 9



FIGURE 10

In the case of netting in the shape of a parallelogram, the triangular piece cut off on one side may be joined to the other edge (see Figure 10).

6.3 Netting in the shape of isosceles trapezia or isosceles triangles

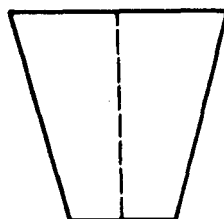


FIGURE 11

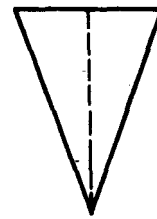


FIGURE 12

The area of such netting may be divided into two right-angled trapezia or triangles respectively, each of these parts being tapered correspondingly in opposite directions.

For triangular shaped netting (see Figure 12) each of the two halves must be tapered to a point.

6.4 Netting in the shape of asymmetrical trapezia

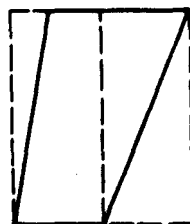


FIGURE 13

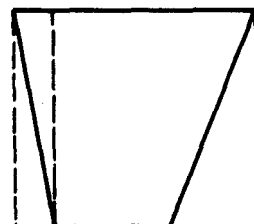
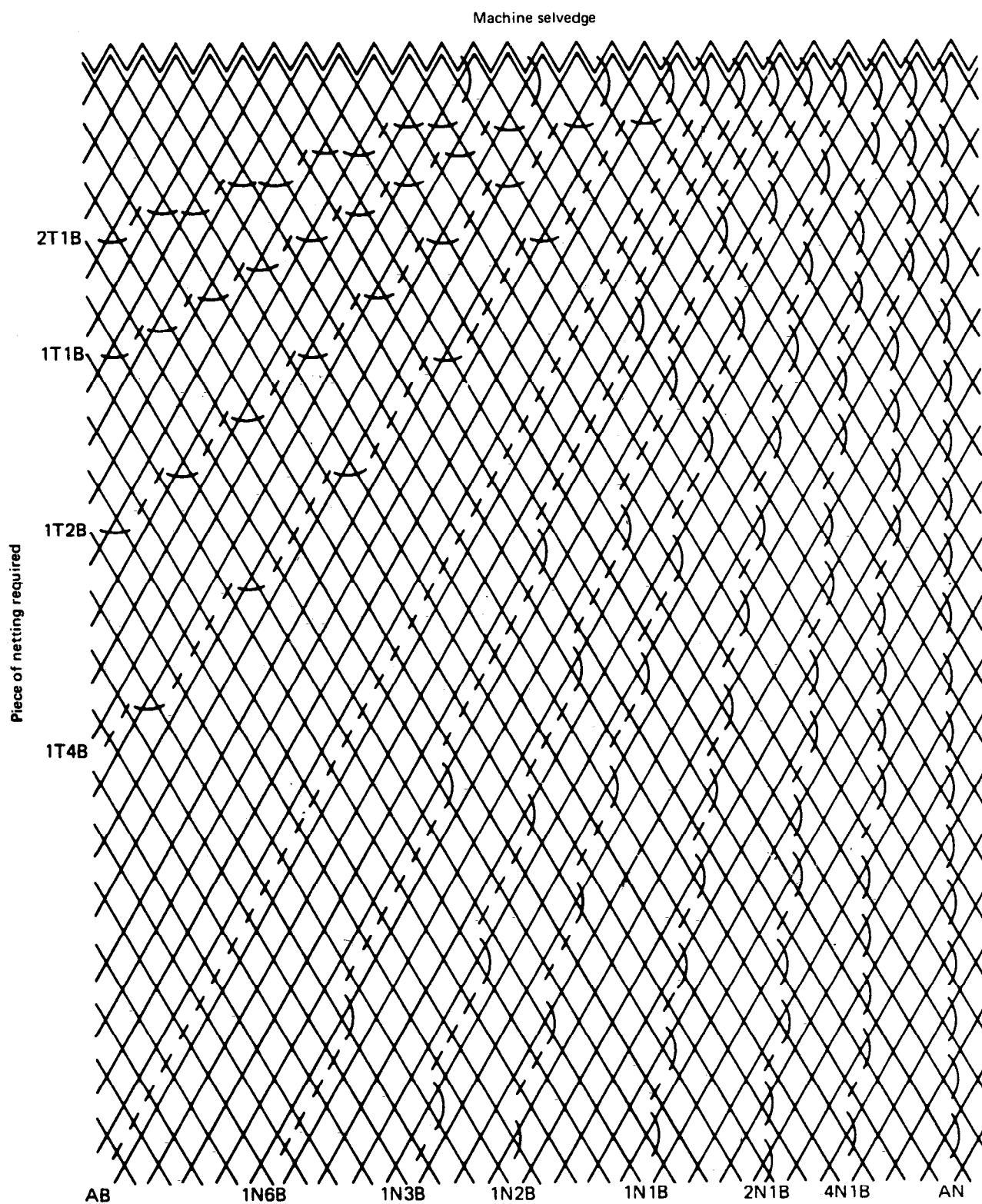


FIGURE 14

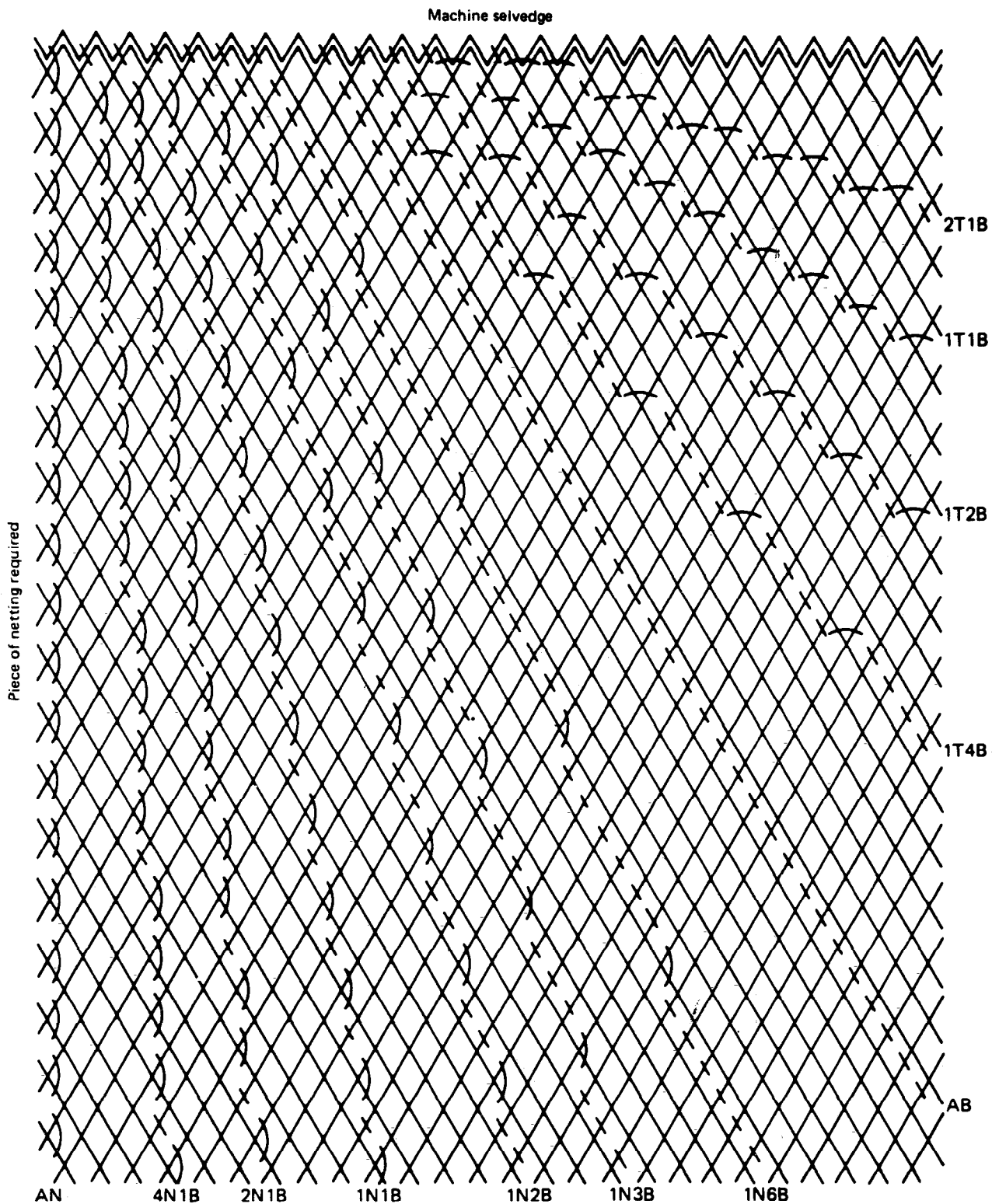
The area of such netting may be divided into one right-angled trapezium and one right-angled triangle respectively, each of these parts being tapered correspondingly.

ANNEX

EXAMPLES OF TAPERING



Taper cuts losing meshes in suspended netting.
Cutting into the piece — tapered piece on left.



Taper cuts gaining meshes in suspended netting.
Cutting away from the piece — tapered piece on left.

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BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all Offices)

Regional Offices :

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

Telephone

{ 331 01 31
{ 331 13 75

Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola
CALCUTTA 700054

{ 37 84 99, 37 85 61
{ 37 86 26, 37 86 62

Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036

{ 53 38 43, 53 16 40
{ 53 23 84

Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113

{ 235 02 16, 235 04 42
{ 235 15 19, 235 23 15

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